

THE CLAIMS

What is claimed is:

~~Sub. a'>~~ 1. A golf ball comprising a core and a cover disposed about the core, wherein the core comprises a center and at least one outer core layer adjacent the center, and the cover comprises at least one inner cover layer and an outer cover layer;

(a) wherein the center has an outer diameter from about 0.375 in to about 1.4 in and deflection of greater than about 4.5 mm under a load of 100 Kg;

(b) the outer core layer has an outer diameter of from about 1.4 in to about 1.62 in;

(c) the inner cover layer has an outer diameter of greater than about 1.58 in and a material hardness of less than about 72 Shore D; and

(d) the outer cover layer has a hardness of greater than about 50 Shore D.

2. The golf ball of claim 1, wherein the outer cover layer has a material hardness less than about 55 shore D.

3. The golf ball of claim 2, wherein the outer cover layer has a material hardness less than about 50 shore D.

4. The golf ball of claim 1, wherein the inner cover layer material hardness is between about 60 and about 70 Shore D.

5. The golf ball of claim 4, wherein the inner cover layer material hardness is between about 60 and about 65 Shore D.

6. The golf ball of claim 1, wherein the inner cover layer outer diameter is from about 1.59 in to about 1.66 in.

7. The golf ball of claim 6, wherein the inner cover layer outer diameter is from about 1.6 in to about 1.64 in.

8. The golf ball of claim 1, wherein the center outer diameter is from about 0.5 in to about 1.25 in.

9. The golf ball of claim 8, wherein the center outer diameter from about 0.9 in to about 1.2 in.

10. The golf ball of claim 1, wherein the outer core layer outer diameter is from about 1.52 in to about 1.59 in.

11. The golf ball of claim 10, wherein the outer core layer outer diameter is from about 1.535 in to about 1.58 in.

12. The golf ball of claim 1, wherein the ball has a moment of inertia of less than about 83 $\text{g}\cdot\text{cm}^2$.

13. The golf ball of claim 1, wherein the center has a first hardness, the outer core layer has a second hardness greater than the first, and the inner cover layer has a third hardness greater than the second.

14. The golf ball of claim 13, wherein the outer cover layer has a fourth hardness less than the third hardness.

15. The golf ball of claim 1, wherein the center has a first specific gravity and the outer core layer has a second specific gravity that differ by less than about 0.1.

16. The golf ball of claim 1, wherein the center is solid.

17. The golf ball of claim 1, wherein the center is liquid, hollow, or air-filled.

Sub. a2

18. A golf ball comprising a core and a cover disposed about the core, wherein the core comprises a solid center and an outer core layer adjacent the center, and the cover comprises an inner cover layer and an outer cover layer;

- (a) wherein the center has an outer diameter from about 0.375 in to about 1.4 in and deflection of greater than about 4.5 mm under a load of 100 Kg;
- (b) the outer core layer has an outer diameter of from about 1.4 in to about 1.62 in;
- (c) the inner cover layer has an outer diameter of greater than about 1.58 in and a material hardness of less than about 72 Shore D; and
- (d) the outer cover layer has a hardness of greater than about 50 Shore D.

19. The golf ball of claim 18, wherein the outer cover layer has a material hardness of less than about 50 and a thickness of less than about 0.035 in.

20. The golf ball of claim 18, wherein the center has a first hardness, the outer core layer has a second hardness greater than the first, and the inner cover layer has a third hardness greater than the second.

21. The golf ball of claim 20, wherein the outer cover layer has a fourth hardness less than the third hardness.

22. The golf ball of claim 18, wherein the inner cover layer outer diameter is from about 1.59 in to about 1.66 in.

23. The golf ball of claim 22, wherein the inner cover layer outer diameter is from about 1.6 in to about 1.64 in.

24. The golf ball of claim 18, wherein the center outer diameter is from about 0.5 in to about 1.25 in.

25. The golf ball of claim 24, wherein the center outer diameter from about 0.9 in to about 1.2 in.

26. The golf ball of claim 18, wherein the outer core layer outer diameter is from about 1.52 in to about 1.59 in.

27. The golf ball of claim 18, wherein the ball has a moment of inertia of less than about 83 $\text{g}\cdot\text{cm}^2$.

28. The golf ball of claim 18, wherein the center has a first specific gravity and the outer core layer has a second specific gravity that differ by less than about 0.1.